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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/654,418	09/05/2003	Hiroshi Yamaguchi	242220US6	5828

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OBLON, SPIVAK, MCCLELLAND MAIER & NEUSTADT, L.L.P.  
1940 DUKE STREET  
ALEXANDRIA, VA 22314

EXAMINER
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WHIPPLE, BRIAN P

ART UNIT	PAPER NUMBER
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2448

NOTIFICATION DATE	DELIVERY MODE
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02/17/2011

ELECTRONIC

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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<b>Office Action Summary</b>	<b>Application No.</b> 10/654,418	<b>Applicant(s)</b> YAMAGUCHI ET AL.	
	<b>Examiner</b> BRIAN P. WHIPPLE	<b>Art Unit</b> 2448	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --**

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 04 February 2011.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-11 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-11 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |   |   |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)         | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____                                      |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)         | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____   | 6) <input type="checkbox"/> Other: _____                          |

**DETAILED ACTION**

1. Claims 1-11 are pending in this application and presented for examination.

***Response to Arguments***

2. Applicant's arguments, see pages 2-3, filed 2/4/11, with respect to the 35 U.S.C. 101 rejections, have been fully considered and are persuasive. The 35 U.S.C. 101 rejection of claim 11 has been withdrawn.

3. Applicant's remaining arguments with respect to claims 1-11 have been considered but are moot in view of the new ground(s) of rejection.

***Claim Rejections - 35 USC § 103***

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 1, 3, 5-6, 8-9, and 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Klein, U.S. Publication No. 2002/0007407 A1, in view of Blewett et al. (Blewett), U.S.

Patent No. 7,131,141 B1, further in view of Stracke, Jr. (Stracke), U.S. Patent No. 6,167,451, and further in view of Official Notice (See MPEP 2144.03).

6. As to claim 1, Klein discloses an information processing apparatus having an interface for connection with networks (Abstract), the information processing apparatus comprising:

detecting means for detecting a first phase connection to a detected network ([0008], wherein the profile is used to “recognize the network”; Claim 1, ln. 7-8, “using the computer profile to cause the computer to recognize the network”);

determination means for determining whether the managing means manages a managed entry corresponding to the detected network when the detecting means has detected the first phase connection to the detected network ([0045], wherein the “EESID is used to determine the WLAN service area when the terminal is communicating with the network and provides security features” and wherein if attempts to associated with a network fail, “a different profile is loaded onto the terminal, and an attempt at a connection to and association with the network is made”); and

establishing means for automatically establishing a second phase connection to the detected network based on the managed entry if the determination means determines that the managing means manages the managed entry corresponding to the detected network ([0008], wherein following the computer recognizing the network, “creating a

communication link between the computer and the network”, wherein the creation of a communication link following the initial recognition of the network may be considered a second phase connection; [0066], wherein the driver performs the “checking for a successful association between a profile and the WLAN which allows automatic connection to the WLAN to be completed”; Claim 1, ln. 9-10, “creating a communications link between the computer and the network”),

said establishing means including a switcher configured to switch access to the detected network using the first phase connection and the second phase connection when a predetermined condition is determined to exist ([0008], wherein following the computer recognizing the network, “creating a communication link between the computer and the network”, wherein the creation of a communication link following the initial recognition of the network may be considered a second phase connection; [0066], wherein the driver performs the “checking for a successful association between a profile and the WLAN which allows automatic connection to the WLAN to be completed” and wherein the successful association may be interpreted as a predetermined condition; Claim 1, ln. 9-10, “creating a communications link between the computer and the network”).

Klein is silent on managing means for managing settings for connectable networks as profiles on a network by network basis;

means for judging whether the detected network has actually changed;

when the means for judging judges that the detected network has actually changed;  
the managed entry being a managed profile; and  
said switcher includes an icon display mechanism configured to produce an icon on a display that notifies a user that the switcher is an active process.

However, Blewett discloses managing means for managing settings for connectable networks as profiles on a network by network basis (Abstract; Fig. 1A; Fig. 1C; Col. 6, ln. 62-66); and

the managed entry being a managed profile (Abstract; Fig. 1A; Fig. 1C; Col. 6, ln. 62-66).

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the teachings of Klein in the aforementioned manner as taught by Blewett in order to provide secure connections based on a standard means of storing information on users or devices, such as profiles.

Klein and Blewett are silent on means for judging whether the detected network has actually changed;

when the means for judging judges that the detected network has actually changed;  
and

said switcher includes an icon display mechanism configured to produce an icon on a display that notifies a user that the switcher is an active process.

However, Stracke discloses means for judging whether the detected network has actually changed (Col. 1, ln. 20-27);

when the means for judging judges that the detected network has actually changed (Col. 1, ln. 20-27).

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the teachings of Klein and Blewett in the aforementioned manner as taught by Stracke in order to increase efficiency by reducing unnecessary traffic across the network (Stracke: Col. 1, ln. 20-27).

Klein, Blewett, and Stracke are silent on said switcher includes an icon display mechanism configured to produce an icon on a display that notifies a user that the switcher is an active process.

However, Official Notice is taken that a switcher including an icon display mechanism configured to produce an icon on a display that notifies a user that the switcher is an active process was well known in the art at the time of the invention. Displaying an icon or notification graphic to a user based on active processes was well known (e.g., displaying a notification in the system tray when a network connection is switched, for example, to another wireless network).

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the teachings of Klein, Blewett, and Stracke in the aforementioned

manner as was well known in the art in order to display information to a user via a convenient means in a graphical user interface.

7. As to claim 3, Klein, Blewett, and Stracke disclose the invention substantially as in parent claim 1, wherein the detecting means detects, as the first phase connection, a connection to a detected gateway that manages a network (Blewett: Col. 10, ln. 14-22),

wherein the determination means determines whether the managing means manages a profile relating to the detected gateway (Blewett: Col. 10, ln. 14-22; Col. 11, ln. 18-29 and 53-55), and

wherein the establishing means establishes the second phase connection to the detected gateway in accordance with the managed profile relating to the detected gateway (Blewett: Col. 11, ln. 53 – Col. 12, ln. 18).

8. As to claim 5, Klein, Blewett, and Stracke disclose the invention substantially as in parent claim 1, wherein using an IP address, the determination means determines whether the managing means manages the managed profile, relating to the detected network detected by the detecting means (Blewett: Col. 11, ln. 18-29 and 53-55).



9. As to claim 6, Klein, Blewett, and Stracke disclose the invention substantially as in parent claim 1, wherein if the interface of the detected network is one of a wired LAN interface and a wireless LAN interface, the first phase connection is a connection to a gateway that manages the detected network, and the second phase connection is a connection to another apparatus through the gateway (Blewett: Fig. 1A; Col. 3, ln. 25-38), and

wherein if the interface of the detected network is a modem, the first phase connection is a connection to an ISP, and the second phase connection is a connection to another apparatus through the ISP (Blewett: Col. 3, ln. 17-21 and 38-42).

10. As to claims 8-9 and 11, the claims are rejected for reasons similar to claim 1 above.

11. Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Klein, Blewett, and Stracke as applied to claim 1 above, in view of Ogle et al. (Ogle), U.S. Patent No. 6,052,736.

12. As to claim 2, Klein, Blewett, and Stracke disclose the invention substantially as in parent claim 1, wherein the detecting means detects the first phase connection to the

detected network (Blewett: Col. 11, ln. 18-29), but is silent on the detecting step occurring by determining whether or not a routing table is modified.

However, Ogle discloses the detecting step occurring by determining whether or not a routing table is modified (Col. 6, ln. 11-42).

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the teachings of Klein, Blewett, and Stracke by determining whether or not a routing table is modified as taught by Ogle in order to reduce the overhead associated with creating and maintaining a routing table (Ogle: Col. 5, ln. 37-50).

13. Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Klein, Blewett, and Stracke as applied to claim 1 above, in view of Beck, U.S. Patent No. 6,671,273 B1.

14. As to claim 4, Klein, Blewett, and Stracke disclose the invention substantially as in parent claim 1, wherein the detecting means detects the first connection to the detected network (Blewett: Col. 11, ln. 18-29), and determining whether the managing means manages the profile relating to the detected network detected by the detecting means (Col. 11, ln. 18-29).

Klein, Blewett, and Stracke are silent on counter means for counting up by one when the detecting means detects the first phase connection to the detected network, and

zero determination means that determines whether a subtracting of one from the count of the counter means makes zero when the detecting means detects the first phase connection to the detected network,

wherein the zero determination means determines whether the managing means manages the managed profile relating to the detected network detected by the detecting means when the zero determination means determines that subtracting of one from the counter of the counter means makes zero,

wherein the establishing means establishes the second phase connection to the detected network in accordance with the managed profile relating to the detected network while the zero determination means determines that the subtracting of one from the count of the counter means makes zero.

However, Beck discloses counter means for counting up by one when the detecting means detects the first phase connection to the detected network (Fig. 4; Col. 5, ln. 27-30 and 43-48), and

zero determination means that determines whether a subtracting of one from the count of the counter means makes zero when the detecting means detects the first phase connection to the detected network (Col. 6, ln. 52-61),

wherein the zero determination means determines whether the managing means manages the managed profile relating to the detected network detected by the detecting

means when the zero determination means determines that subtracting of one from the counter of the counter means makes zero (Col. 6, ln. 52-61),

wherein the establishing means establishes the second phase connection to the detected network in accordance with the managed profile relating to the detected network while the zero determination means determines that the subtracting of one from the count of the counter means makes zero (Col. 6, ln. 52-64).

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the teachings of Klein, Blewett, and Stracke by examining a counter to determine if registration (i.e. management) of a connection needs to occur as taught by Beck in order to minimize the overhead operations associated with registering (i.e. managing) connections (Beck: Col. 2, ln. 46-52).

15. Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Klein, Blewett, and Stracke as applied to claim 1 above, in view of Winkler, U.S. Publication No. 2003/0070100 A1.

16. As to claim 7, Klein, Blewett, and Stracke disclose the invention substantially as in parent claim 1, wherein a second phase connection to the network is established by the establishing means (Blewett: Col. 11, ln. 53 – Col. 12, ln. 18), but are silent on starter means

which automatically starts a predetermined software application set by a user when the second phase connection to the network is established by the establishing means.

However, Winkler discloses starter means which automatically starts a predetermined software application set by a user when the second phase connection to the network is established by the establishing means ([0012]).

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the teachings of Klein, Blewett, and Stracke by automatically starting a predetermined software application set by a user when a connection to the network is established as taught by Winkler in order to authenticate a user and then launch the desired application for the user ([0008]; [0012]).

17. Claim 10 is rejected under 35 U.S.C. 103(a) as being unpatentable over Klein, Blewett, and Stracke as applied to claim 3 above, in view of Koyanagi et al. (Koyanagi), U.S. Publication No. 2001/0013067 A1.

18. As to claim 10, Klein, Blewett, and Stracke disclose the invention substantially as in parent claim 3, wherein said detecting means detects, as said first phase connection, plural connections to plural gateways (Blewett: Fig. 1A), and said establishing means automatically establishes said second phase connection to the gateway of the managed profile (Blewett:

Col. 8, ln. 52-55, “automatically translates the destination address and routes the packet to the proper host in the worknet”; Col. 11, ln. 18-32, “rule set assures that only packets from the protected resource network are accepted from the tunnel, and that only packets bound for worknet are accepted from the tunnel”; Col. 11, ln. 53 – Col. 12, ln. 18).

Klein, Blewett, and Stracke are silent on establishing a connection to a gateway which has a lowest value of a metric.

However, Koyanagi discloses establishing a connection to a gateway which has a lowest value of a metric (Abstract; [0056]).

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the teachings of Klein, Blewett, and Stracke by establishing a connection to a gateway which has a lowest value of a metric as taught by Koyanagi in order select an appropriate network for data transmission based on either a lowest data transmission time or a lowest data transmission fee (Koyanagi: [0056]).

### ***Conclusion***

19. Any inquiry concerning this communication or earlier communications from the examiner should be directed to BRIAN P. WHIPPLE whose telephone number is (571)270-1244. The examiner can normally be reached on Mon-Fri (8:30 AM to 5:00 PM EST).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Firmin Backer can be reached on 571-272-6703. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Brian P. Whipple  
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Examiner, Art Unit 2448  
2/14/11